



Optimizing the Maternal Fetal Medicine Experience in Neonatal Perinatal Medicine Fellowship

Jayasree Nair
Clinical Associate Professor of Pediatrics,
Program Director, Neonatal Perinatal Medicine
Fellowship
University at Buffalo

Project Background.

Neonatology fellowship at UB

- ACGME accredited mid size program
- Clinical training at John R Oishei Childrens Hospital NICU

Maternal Fetal Medicine

- Pipeline from MFM to NICU
- Collaborate for care of dyad-Prenatal consults-in and out patient, care plans

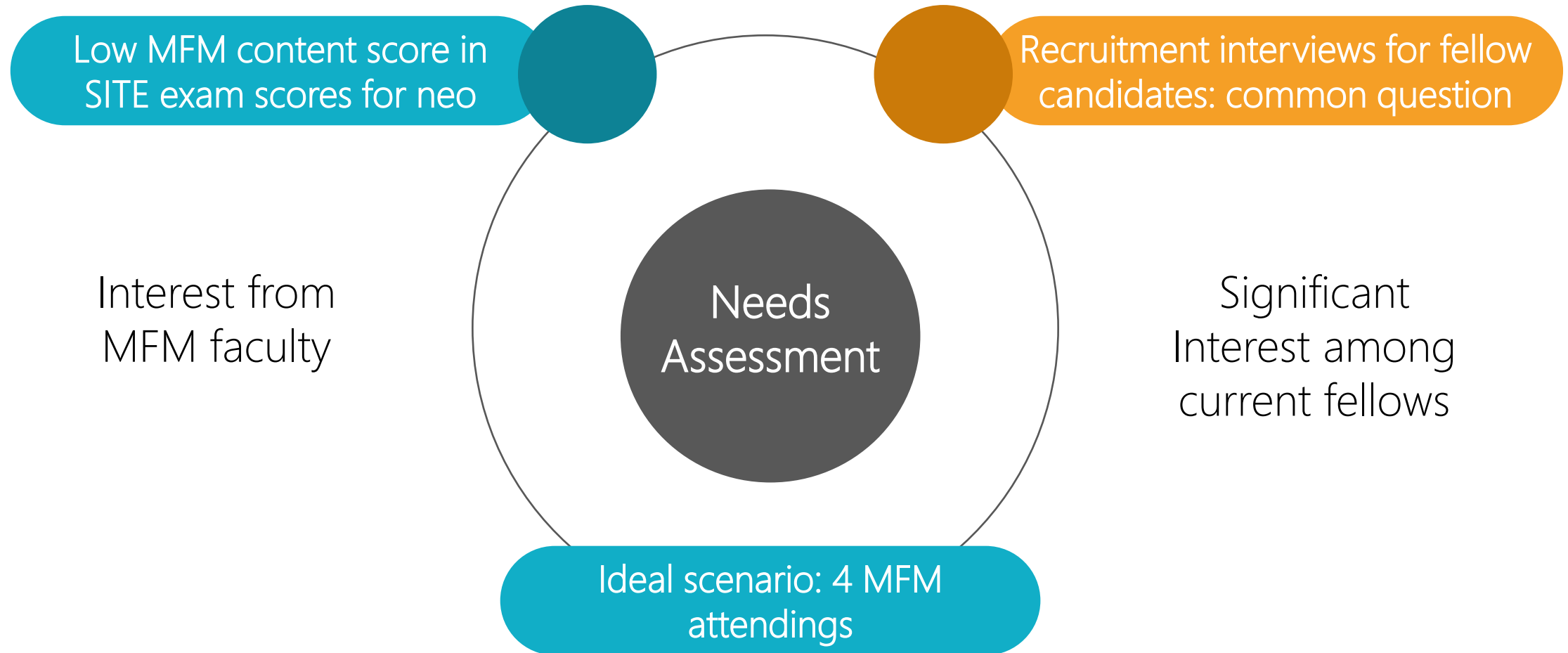
MFM in NPM fellowships

- Most mid-large neo fellowships have an MFM rotation
- Integral part of Neo board content

Pre-project

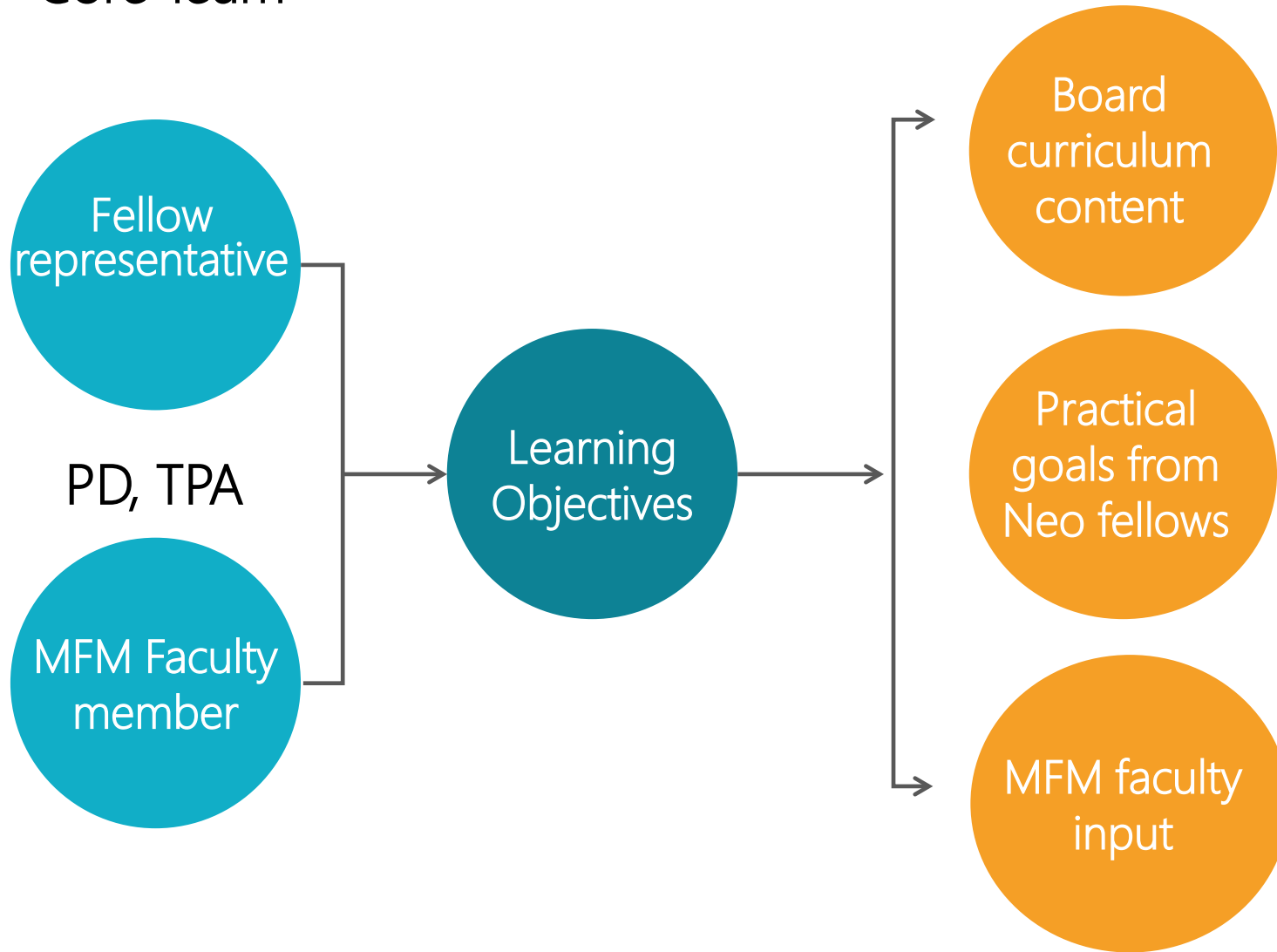
- Fragmented education/ clinical experience
- IP MFM consult-fellows
- Monthly combined education meeting/high risk
- OP MFM clinic consults: attendings+/- fellows

Project Background

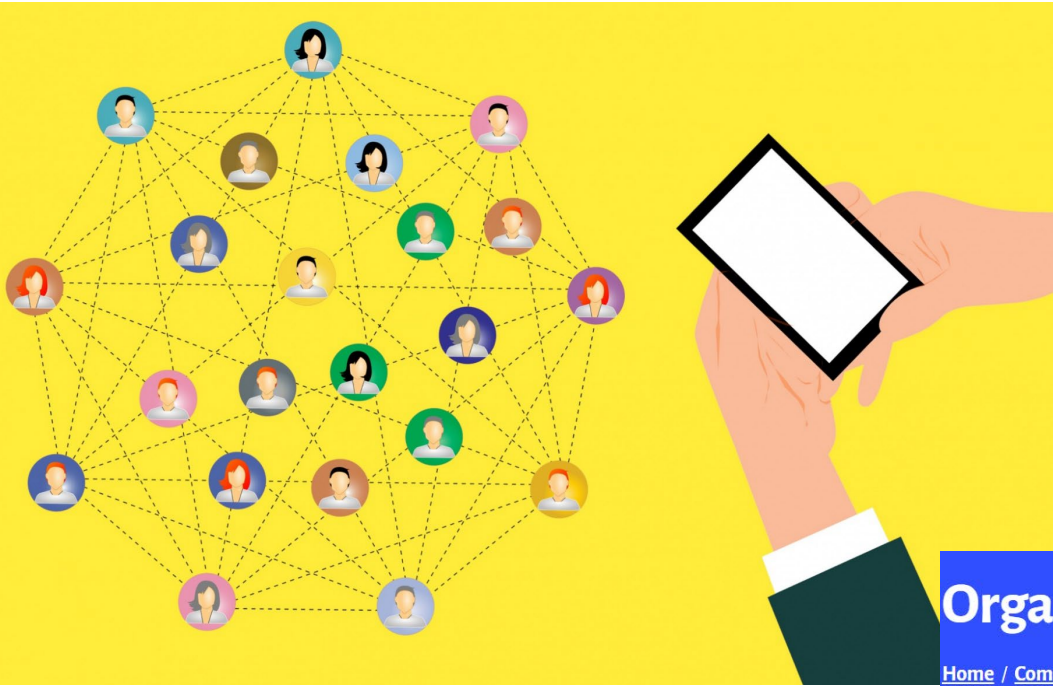


Planning

Core Team



Utilize Resources



Organization of Neonatal-Perinatal Medicine Program Directors

[Home](#) / [Community](#) / [AAP Sections](#) / [Section on Neonatal Perinatal Medicine \(SONPM\)](#) / [ONTPD](#)

Welcome

ONTPD is an organization of Neonatal-Perinatal Medicine Program Directors and Associate Program Directors that develop, manage and advocate for Neonatal-Perinatal Medicine Fellowship Programs.

[Learn More](#)



Goals & Objectives

Goals	Objectives	E
A. Pregnancy		IV
1. Factors of pregnancy	a. Know the <u>physiology of maternal adaptation to pregnancy</u> and know the normal changes in maternal physiologic variables and in laboratory values that occur during pregnancy	IV
	b. Know the <u>essentials of prenatal care</u> , including risk assessment, perinatal referral, screening, and standard monitoring	IV
	c. Know the <u>types of multiple gestation</u>	N
<u>Placenta</u>	<ul style="list-style-type: none"> Know the normal morphologic development of the placenta Know the role of the placenta in gas exchange and oxygenation of the fetus Know the role of the placenta in the energy metabolism of the fetus, including the transfer of glucose, electrolytes, and amino acids to the fetus Know the types of abnormal placentation, such as placenta previa and placenta accreta, and the potential influence on both maternal and fetal health and labor and delivery management Know the components of pre- and periconceptional health care (including nutritional requirements during pregnancy) that influence pregnancy outcomes 	N N rc
	h. Know the types of <u>assisted reproductive technologies</u> and how they may influence pregnancy outcome	N R

MFM rotation practical expectations

- Understand** Normal physiological adaptation in pregnancy and effects of Multiple gestation types and complications and Maternal medical conditions and effects on fetus.
- Observe** Fetal well-being assessment- NST, CST, BPP, first and 2nd trimester US, screen for aneuploidy, NIPT, Umbilical and cerebral flow assessment
 - Evaluate Fetal HR patterns
 - Assessment for IUGR, macro/macrosomia
 - Genetic screening and counseling
- Participate in** the MFM clinic and/or high risk patient rounds on the OB floor
- Assist in providing neonatal consults** required on the floor during the rotation hours. Outpatient consults in clinic should be scheduled using current ongoing process, and inpatient consults should be scheduled with attending neonatologist.
- Present** a topic/case as directed by the MFM attending at the end of the 2 week rotation
- Seek face-to face **feedback** from MFM attending and Complete assigned rotation evaluation in med hub.

Timing and layout:

- Anticipate participation 3 days out of 5 in the week (post call/NICU responsibilities 2 d)
- Tuesday 12-2: Neo fellow curriculum/protected time

Challenges



Securing
"buy-in"
from MFM
faculty

How does it help them?

Brief Neo consults in clinic for their patients- improved patient care

Scheduling
around
existing
obligations

Pilot: 3rd year fellows with fewer "on service" time

3d/week for 2 weeks

Follow MFM attending schedule

Outcome measures.

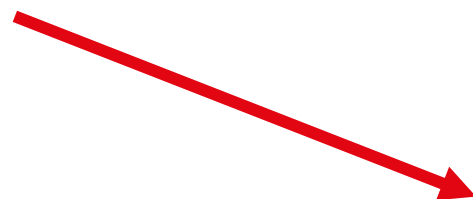


Neo Fellow

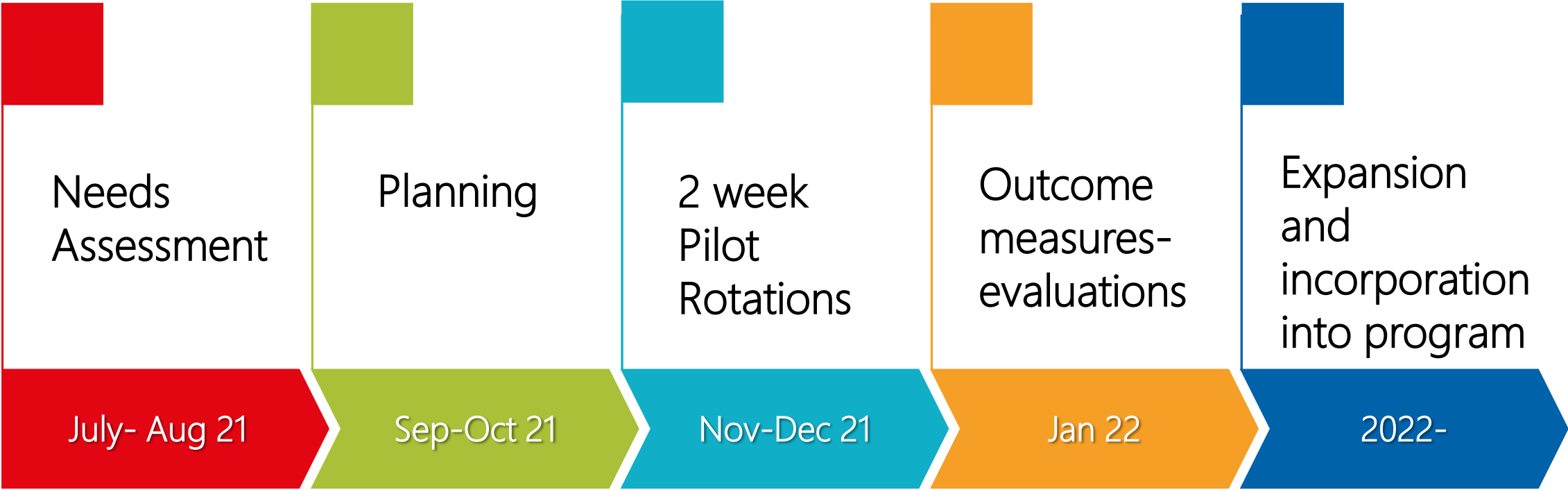
MFM Faculty
combined

Medhub

Rotation



Project Timeline



Impact

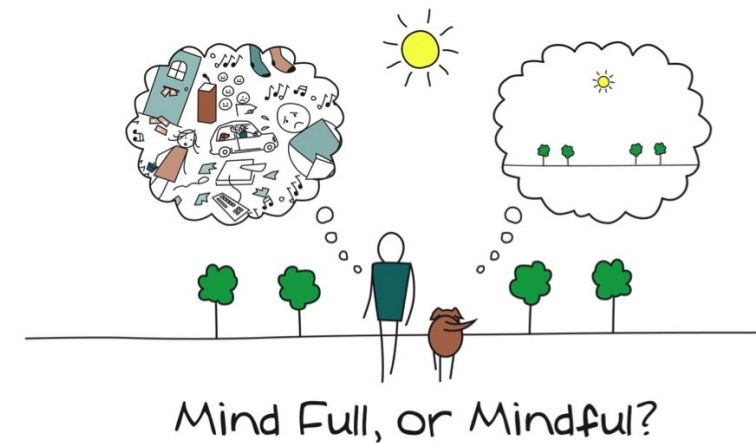


- Strengthened UB NPM fellowship curriculum
- Patient care facilitated in clinic
- ? Improvement in board scores

- Bonus: Increased familiarity between the two divisions= better communication

Academy Outcomes

- Six domains of leadership: Knowledge of self, skills, team, students, system and context- set the challenge and timeline
- DISC – understand myself and leadership style, how it impacts interactions with others
- SUNY 360- personal feedback was valuable
- Carolyn Mattiske : 2 min of peace every tuesday



Final Reflections



Dr Vanessa Barnabei
Associate Dean for Faculty
Affairs
Jacobs School Of Medicine
and Biomedical Sciences,
University at Buffalo



Thank You